

<b><u>GCSE</u> <u>Chemistry</u> <u>Triple</u> <u>Science</u>  <u>Year 10</u></b>	<b><u>Autumn HT1</u> <u>Chapter 1/2</u></b>	<b><u>Autumn HT2</u> <u>Chapter 2/3</u></b>	<b><u>Spring HT1</u> <u>Chapter 3/4</u></b>	<b><u>Spring HT2</u> <u>Chapter 4/5</u></b>	<b><u>Summer HT1</u> <u>Chapter 6</u></b>	<b><u>Summer HT2</u> <u>Chapter 6</u></b>
	1. Transition metals 2. Chemical bonds 3. Ionic bonding 4. Ionic compounds 5. Covalent bonding 6. Metallic bonding 7. Three states of matter 8. Properties of ionic compounds 9. Properties of small molecules 10. Polymer structures 11. Giant covalent structures 12. Properties of metals and alloys 13. Diamond 14. Graphite 15. Graphene and fullerenes	1. Nanoparticles, their properties and uses 2. Size of particles and orders of magnitude 3. Visualise and represent 2D and 3D shapes 4. Conservation of mass equations 5. Relative formula mass 6. Mass changes when gases are in reactions 7. Chemical measurements and uncertainty 8. Moles 9. Amounts of substances in equations 10. Using moles to balance equations 11. Concentrations of solutions 12. Percentage yield 13. Atom Economy	1. Amounts of substance in volumes of gases 2. Amounts in chemistry 3. Change the subject of an equation 4. Metal oxides 5. Reactivity series 6. Extraction of metals 7. Oxidation and reduction in terms of electrons 8. Reaction of metals with acids 9. Neutralisation of acids and salt production 10. Soluble salts 11. Soluble salt required practical 12. pH and neutralisation	1. The process of electrolysis 2. Electrolysis of molten ionic compounds 3. Using electrolysis to extract metals 4. Electrolysis of aqueous solutions 5. Electrolysis required practical 6. Electron transfer, oxidation and reduction 7. Endothermic and exothermic reactions 8. Temperature changes required practical 9. Reaction profiles 10. Energy change of reactions	1. Measuring rates 2. Limiting reactions and molar masses 3. Calculating rates 4. Factors affecting rates 5. Rate of reaction required practical 6. Factors increasing the rate 7. Collision theory 8. Catalysts 9. Reversible reactions and energy changes	10. Equilibrium 11. Changing concentration and equilibrium 12. Changing temperature and equilibrium 13. Changing pressure and equilibrium 14. Using a tangent to measure rate of change

		14. Using concentrations of solutions 15.	13. Titration required practical 14. Strong and weak acids 15.			
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#### Year 9

1. Elements and compounds
2. Atoms, formulae and equations
3. Mixtures
4. Changing ideas about the atom
5. Relating charges and masses
6. Sub-atomic particles
7. Electronic structure
8. The periodic table
9. Developing the periodic table
10. Comparing metals and non-metals
11. Metals and non-metals
12. The outer electrons
13. Group 0
14. Group 1
15. Group 7
16. Reactions and trends and predicting reactions
17. Standard form and making estimates
- 18.